



Element Materials Technology - Fort Wayne
328 Ley Rd.
Fort Wayne, IN 46825
TEL: (260) 424-1622 FAX: (260) 424-9124
Website: www.element.com

October 22, 2021

Henry Padilla
East Chicago Sanitary District
5201 Indianapolis Blvd
East Chicago, IN 46312
TEL: (219) 391-8466
FAX: (219) 391-8254

RE: S-901

Order No.: 21092552

Dear Henry Padilla:

Element Materials Technology - Fort Wayne received 2 sample(s) on 9/23/2021 for the analyses presented in the following report.

In accordance with your instructions, a laboratory of Element Materials Technology Fort Wayne LLC either conducted or subcontracted these analyses. Subcontracted analyses will be identified in an accompanying case narrative and any associated report(s) will be attached in full. Unless otherwise noted in the case narrative, all analyses were conducted using approved methodologies. Reported results relate only to the items tested.

Estimated uncertainty is available upon request. This report shall not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.
Sincerely,

A handwritten signature in black ink that reads 'Don Ellis II'.

Don Ellis II
Project Manager
328 Ley Rd.
Fort Wayne, IN 46825



Element Materials Technology - Fort Wayne
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Fort Wayne, IN 46825
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Case Narrative

WO#: 21092552

Date: 10/22/2021

CLIENT: East Chicago Sanitary District

Project: S-901

The Available Cyanide testing was subcontracted to Eurofins/Test America Pittsburgh PA. Their report is attached in its entirety.

The surrogate recovery was outside of acceptance limits for the EPA 625 analysis on sample 21092552-001D due to suspected matrix interference. This data is reported based upon the acceptable recoveries in additional associated QC.

Original



Element Materials Technology - Fort Wayne
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Analytical Report

(wastewater)

WO#: 21092552

Date Reported 10/22/2021

CLIENT: East Chicago Sanitary District **Collection Date:** 9/22/2021 9:53:00 AM
Project: S-901
Lab ID: 21092552-001 **Matrix:** WASTEWATER
Client Sample ID S-901 Grab
Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
OIL AND GREASE, TOTAL					E1664		Analyst: SME
Oil & Grease, Total	64.9	3.0	*	mg/L	1	50.0	10/6/2021 7:59:42 PM
OIL AND GREASE, PETROLEUM HYDROCARBONS					E1664		Analyst: SME
Oil & Grease, Petroleum	40.0	3.0		mg/L	1	100	10/12/2021 11:40:12 AM
SV COMPOUNDS FOR CATEGORICAL RQTS					E625		Analyst: SKW
Bis(2-ethylhexyl)phthalate	< 50	50		µg/L	5	160	10/9/2021 10:16:00 PM
Carbazole	< 50	50		µg/L	5		10/9/2021 10:16:00 PM
Fluoranthene	< 50	50		µg/L	5	54	10/9/2021 10:16:00 PM
n-Decane	< 50	50		µg/L	5		10/9/2021 10:16:00 PM
n-Octadecane	77	50		µg/L	5		10/9/2021 10:16:00 PM
SEMI-VOLATILES IN WW					E625		Analyst: SKW
Fluoranthene	< 50	50		µg/L	5		10/9/2021 10:16:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
PL Permit Limit
RL Reporting Detection Limit



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Analytical Report

(wastewater)

WO#: 21092552

Date Reported 10/22/2021

CLIENT: East Chicago Sanitary District **Collection Date:** 9/22/2021 9:53:00 AM
Project: S-901
Lab ID: 21092552-002 **Matrix:** WASTEWATER
Client Sample ID: S-901 Composite
Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
FLUORIDE					E300.0		Analyst: RXB
Fluoride	2.4	1.0		mg/L	10	2.9	9/27/2021 11:22:58 AM
CHEMICAL OXYGEN DEMAND					M5220 D		Analyst: ASP
Chemical Oxygen Demand	5,150	100		mg/L	10		9/28/2021 12:49:00 PM
AMMONIA AS N					E350.1		Analyst: SME
Nitrogen, Ammonia (As N)	93.0	1.00	*	mg/L	10	77.0	9/29/2021 1:24:00 PM
PHENOLICS IN WASTEWATER					E420.1		Analyst: ANS
Phenolics, Total Recoverable	32.0	0.625	*	mg/L	25	0.700	10/19/2021 9:00:00 AM
TOTAL PHOSPHORUS					M4500-P F		Analyst: RXB
Total Phosphorus	1.73	0.100		mg/L	1	5.50	9/30/2021 5:40:47 PM
TOTAL SUSPENDED SOLIDS					M2540 D		Analyst: MNH
Suspended Solids (Residue, Non-Filterable)	373	133		mg/L	1		9/28/2021 12:39:00 PM
MERCURY					E245.1		Analyst: FJR
Mercury	0.00089	0.00010		mg/L	1		9/30/2021 11:21:58 AM
METALS IN WATER BY ICP-MS, TOTAL					E200.8		Analyst: FJR
Arsenic	0.0158	0.00020		mg/L	1	0.500	9/27/2021
Chromium	0.0169	0.00040		mg/L	1	0.282	9/27/2021
Cobalt	0.00410	0.00010		mg/L	1		9/27/2021
Copper	0.0221	0.00020		mg/L	1	0.301	9/27/2021

Qualifiers:
* Value exceeds Maximum Contaminant Level
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
PL Permit Limit
RL Reporting Detection Limit



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Analytical Report

(wastewater)

WO#: 21092552

Date Reported 10/22/2021

CLIENT: East Chicago Sanitary District **Collection Date:** 9/22/2021 9:53:00 AM
Project: S-901
Lab ID: 21092552-002 **Matrix:** WASTEWATER
Client Sample ID S-901 Composite
Sample Location:

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
METALS IN WATER BY ICP-MS, TOTAL				E200.8	Analyst: FJR		
Lead	0.00427	0.00020		mg/L	1	0.224	9/27/2021
Molybdenum	0.0530	0.00020		mg/L	1	0.200	9/27/2021
Nickel	0.0285	0.00100		mg/L	1	0.390	9/27/2021
Tin	< 0.00500	0.00500		mg/L	1		9/27/2021
Zinc	0.334	0.00400		mg/L	10	1.48	9/29/2021

Qualifiers:	*	Value exceeds Maximum Contaminant Level	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	PQL	Practical Quantitation Limit	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

Laboratory Job ID: 180-127698-1

Client Project/Site: Available Cyanide 21092552

For:

Element Materials Technology
328 Ley Rd
Suite100
Fort Wayne, Indiana 46825

Attn: Kris Kwasny



Authorized for release by:
10/5/2021 11:55:21 AM

Andy Johnson, Manager of Project Management
(615)301-5045

Andy.Johnson@Eurofinset.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

PA Lab ID: 02-00416

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Case Narrative

Client: Element Materials Technology
Project/Site: Available Cyanide 21092552

Job ID: 180-127698-1

Job ID: 180-127698-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-127698-1

Comments

No additional comments.

Receipt

The sample was received on 9/28/2021 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.1° C.

General Chemistry

Method OIA-1677: The following sample was diluted to bring the concentration of target analytes within the calibration range: 21092552-001A (180-127698-1). Elevated reporting limits (RLs) are provided.

Method OIA-1677: The reagent IDs recorded in batch 373380 for the WAD AR solution (4065967) and the WAD Carrier Solution (4066011) were incorrect and should have been recorded as 4387428 & 4477886, respectively. 21092552-001A (180-127698-1), (CCB 180-373380/34), (CCB 180-373380/48), (CCB 180-373380/62), (CCB 180-373380/76), (CCB 180-373380/94), (CCV 180-373380/33), (CCV 180-373380/47), (CCV 180-373380/61), (CCV 180-373380/75), (CCV 180-373380/93), (ICB 180-373380/20), (ICV 180-373380/19), (LCS 180-373380/41), (LCS 180-373380/59), (LCS 180-373380/81), (MB 180-373380/40), (MB 180-373380/58), (MB 180-373380/80), (180-127697-A-1), (180-127697-A-1 MS), (180-127697-A-1 MSD), (480-189336-A-2), (480-189336-A-2 MS), (480-189336-A-2 MSD) and (500-205828-A-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Element Materials Technology
Project/Site: Available Cyanide 21092552

Job ID: 180-127698-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Element Materials Technology
Project/Site: Available Cyanide 21092552

Job ID: 180-127698-1

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-21 *
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-22
Wisconsin	State	998027800	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Element Materials Technology
Project/Site: Available Cyanide 21092552

Job ID: 180-127698-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-127698-1	21092552-001A	Water	09/22/21 09:53	09/28/21 10:00

1

2

3

4

5

6

7

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9

10

11

12

13

Method Summary

Client: Element Materials Technology
Project/Site: Available Cyanide 21092552

Job ID: 180-127698-1

Method	Method Description	Protocol	Laboratory
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Element Materials Technology
Project/Site: Available Cyanide 21092552

Job ID: 180-127698-1

Client Sample ID: 21092552-001A
Date Collected: 09/22/21 09:53
Date Received: 09/28/21 10:00

Lab Sample ID: 180-127698-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	OIA - 1677		10			373380	09/29/21 14:55	SNR	TAL PIT
Instrument ID: ALPKEM3										

Laboratory References:
TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:
Lab: TAL PIT
Batch Type: Analysis
SNR = Sabra Richart

Client Sample Results

Client: Element Materials Technology
Project/Site: Available Cyanide 21092552

Job ID: 180-127698-1

Client Sample ID: 21092552-001A

Lab Sample ID: 180-127698-1

Date Collected: 09/22/21 09:53

Matrix: Water

Date Received: 09/28/21 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	0.17		0.020	0.015	mg/L			09/29/21 14:55	10

QC Sample Results

Client: Element Materials Technology
Project/Site: Available Cyanide 21092552

Job ID: 180-127698-1

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Lab Sample ID: MB 180-373380/40

Matrix: Water

Analysis Batch: 373380

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		0.0020	0.0015	mg/L			09/29/21 14:40	1

Lab Sample ID: LCS 180-373380/41

Matrix: Water

Analysis Batch: 373380

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Available	0.0501	0.0523		mg/L		104	82 - 132

QC Association Summary

Client: Element Materials Technology
Project/Site: Available Cyanide 21092552

Job ID: 180-127698-1

General Chemistry

Analysis Batch: 373380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-127698-1	21092552-001A	Total/NA	Water	OIA - 1677	
MB 180-373380/40	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-373380/41	Lab Control Sample	Total/NA	Water	OIA - 1677	

Element Materials Technology - Fort Wayne
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Fort Wayne, IN 46825
TEL: (260) 424-1622
FAX: (260) 424-9124
Website: www.element.com

SUB CONTRATOR: TEST_AMERICA		COMPANY: Test America		SPECIAL INSTRUCTIONS / COMMENTS: ID# PIFW000533	
ADDRESS: Sample Receiving					
CITY, STATE, ZIP: Nashville, TN 37204					
PHONE: (800) 765-0980 FAX: (615) 726-3404 EMAIL:					
ACCOUNT #:					

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	21092552-001A CYAN_1677 (OIA-1677-09)	S-901 Grab	500HDPENAOH	Wastewater	9/22/2021 9:53:00 AM	1	

RUSH!

3 day TAT



180-127698 Chain of Custody

Relinquished By: <i>[Signature]</i>	Date: 9/27/21	Time: 4:00pm	Received By: <i>[Signature]</i>	Date: 9-28-21	Time: 10:00	REPORT TRANSMITTAL DESIRED:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	<input type="checkbox"/> HARDCOPY (extra cost)	<input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
TAT: Standard <input type="checkbox"/> RUSH <input checked="" type="checkbox"/> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						Temp of samples _____ °C Attempt to Cool? _____	
Note: RUSH requests will incur surcharges!						Comments: _____	
						Page 17 of 19	

Login Sample Receipt Checklist

Client: Element Materials Technology

Job Number: 180-127698-1

Login Number: 127698

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	




Chain of Custody

21092552

Client Information:	
East Chicago Sanitary District	
Henry Padilla	
5201 Indianapolis Blvd	
East Chicago IN 46312	
219-391-8466	Ext. 240
hpadilla@eastchicago.com	

Billing Information:
Same
Ext:

PO Number:
Quote Number:
Required QC Level
Bill Monthly
<input type="checkbox"/> Yes
<input type="checkbox"/> No

Project Name/Number: S-901	
Sampler's Signature 	
Shipping Method: <div>UPS / FedEx <u>Now</u></div> <div>Element / Hand / Mail</div>	

Page 1 of 1

Matrix Code

DW = Drinking Water
WW = Waste Water
GW = Ground Water
AQ = Aqueous
OT = Other
SL = Sludge SOL = Solid
O = Oil SO = Soil
F = Food SW = Swab
NG = Natural Gas
NGL = Natural Gas Liquid
PW = Produced Water
CF = Completion Fluid

Which Regulations Apply:		Turn Time 5 TAT	(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container		Pres.	Requested Tests								Comments
<input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RISC	<input type="checkbox"/> Drinking Water <input type="checkbox"/> Distribution <input type="checkbox"/> Special <input type="checkbox"/> State <input type="checkbox"/> Other			Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₃	CYANIDE 1677	Oil & Grease T&SI	**SVOC list	PHENOL	*Metals	NH ₃ , T.PHOS, COD	300: Fluoride	TSS	
Sample ID/Description		Collection Information													
		Date	Time	Grab / Composite	Matrix										
S-901 Grab		9-22-21	9:53	Grab	WW	1	P	NaOH	x						
S-901 Grab				Grab	WW	1	G	H2SO4		x					
S-901 Grab				Grab	WW	1	G	NONE			x				
S-901 Grab				Grab	WW	1	G	H2SO4				x			
S-901 Composite				Comp	WW	1	P	HNO3				x			
S-901 Composite				Comp	WW	1	P	H2SO4					x		
S-901 Composite				Comp	WW	1	G	H2SO4							
S-901 Composite				Comp	WW	2	P	NONE						x	x

Samples Meet Acceptance Policy

Yes No

*As, Cr, Cu, Pb, Mo, Ni, Zn, & Hg, Extra: Co, Sn

**Carbazole, n-Decane, Fluoranthene, n-Octadecane, Phenanthrene, Bis(2EH) Phthalate

	Relinquished by	Date/Time	Received by	Date/Time	Composite Sampler: Start Date/Time: 9-22-21 9:53 End Date/Time: 9-23-21 8:40
1	Steve Bost	9/23/21 10:20 AM	Steve D Bost	9-23-21 1025	Received at lab on ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 4.9
2	Steve D Bost	9-23-21 1700	Jacqueline Bost	9-23-21 1700	
3					

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

FSab-655

8800 North US 31
Columbus, IN
47201 USA
P 812-375-0531
F 812-375-0731

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Fort Wayne, IN
46825 USA
P 260-471-7000
F 260-471-7777

909 Executive Dr.
Warsaw, IN
46580 USA
P 574-267-3305
F 574-269-6569

Page 19 of 19
Cleveland Road, Suite 100A
South Bend, IN
46628-9780 USA
P 574-277-0707

2417 W. Pinhook Rd
Lafayette, LA
70508-3344 USA
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F 337-233-6540